

15

DRAWING AND SPECIFICATION TRANSMITTAL
LOCKWOOD GREENE ENGINEERS, INC.

SPARTANBURG, SOUTH CAROLINA 29304
P.O. BOX 491 (803)582-2351

TO Naval Facilities Engineering
Command
Atlantic Division
Norfolk, Va. 23511

DATE Sept. 17, 1979
JOB NO. 77239.16
JOB NAME Naval Regional Medical Center

TRANSMITTAL NO. 1540
SHEET 1 OF 1
ORDER NO.
Contract Number:
N-62470-77-C-7526

ATTN: Mr. John Grubbs Code 05

WE ARE SENDING YOU THE FOLLOWING DATA XX HEREWITH _____ UNDER SEPARATE COVER

QUAN.	DOCUMENT NO.	REV. NO.	DESCRIPTION	VENDOR	CODE
1	CV3-16		Stop Gates	Ashbrook-Simon Hartley	AN

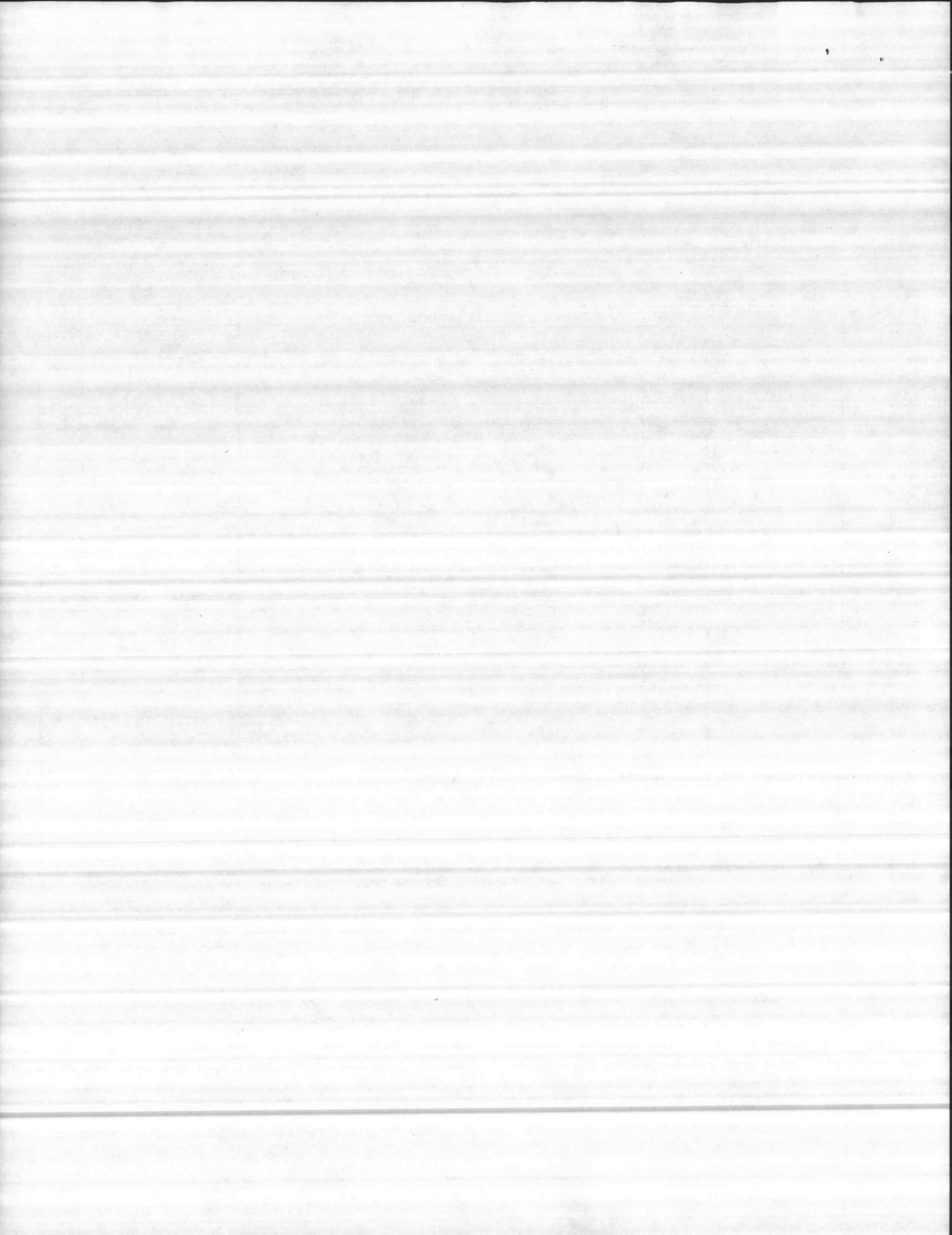
LOCKWOOD GREENE DOCUMENTS				VENDOR DOCUMENTS		
A - INFORMATION	B - REVIEW	C - APPROVAL	D - REVISED DWG. (SEE REVISION)	E - BID	F - CONSTRUCTION	G - PURCHASING
				H -	K - NO CORRECTIONS NOTED	L - MAKE CORRECTIONS NOTED
					M - REVISE AND RESUBMIT	N - REJECTED (SEE REMARKS)

COPIES TO	QUAN	TRANS ONLY	CODE	COPIES TO	QUAN	TRANS ONLY	CODE
ROICC	2						
Cardinal Contracting	3						

REMARKS

PLEASE ACKNOWLEDGE RECEIPT BY IMMEDIATE RETURN OF SIGNED COPY OF THIS TRANSMITTAL

RECEIVED BY _____ DATE _____ TRANSMITTED BY Richard McKnight



CONTRACTOR'S SUBMITTAL TRANSMITTAL

5ND LANTDIV 4-4355/3 (Rev. 6/76)

SECTION 15350

file

CONTRACT NO. W-62470-77-C-7528	TRANSMITTAL NO. 735-1	DATE 8-21-79
--	---------------------------------	------------------------

FROM CONTRACTOR
CARDINAL CONT. CO. INC.
TO
LOCKWOOD GREEN ENGRS.

PROJECT TITLE AND LOCATION
**NAVAL REGIONAL MED COO
CAMP LEJEUNE N.C.**

CONTRACTOR USE ONLY

1540

*List only one specification division per form.

List only one of the following categories on each transmittal form, and indicate which is being submitted

- Contractor Approved OICC Approval Deviation/Substitution For OICC Approval

REVIEWER USE ONLY

- **ACTION CODES**
A-Approved
D-Disapproved
AN-Approved as noted
RA-Receipt acknowledged.
C-Comments
R-Resubmit

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO. *	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES **	REVIEWER'S INITIALS CODE AND DATE
735-1	CV3-16	STOP GATE'S	7	AN	BT 9/13/79

CONTRACTOR'S COMMENTS

* TO BE FURNISHED AS NOTED

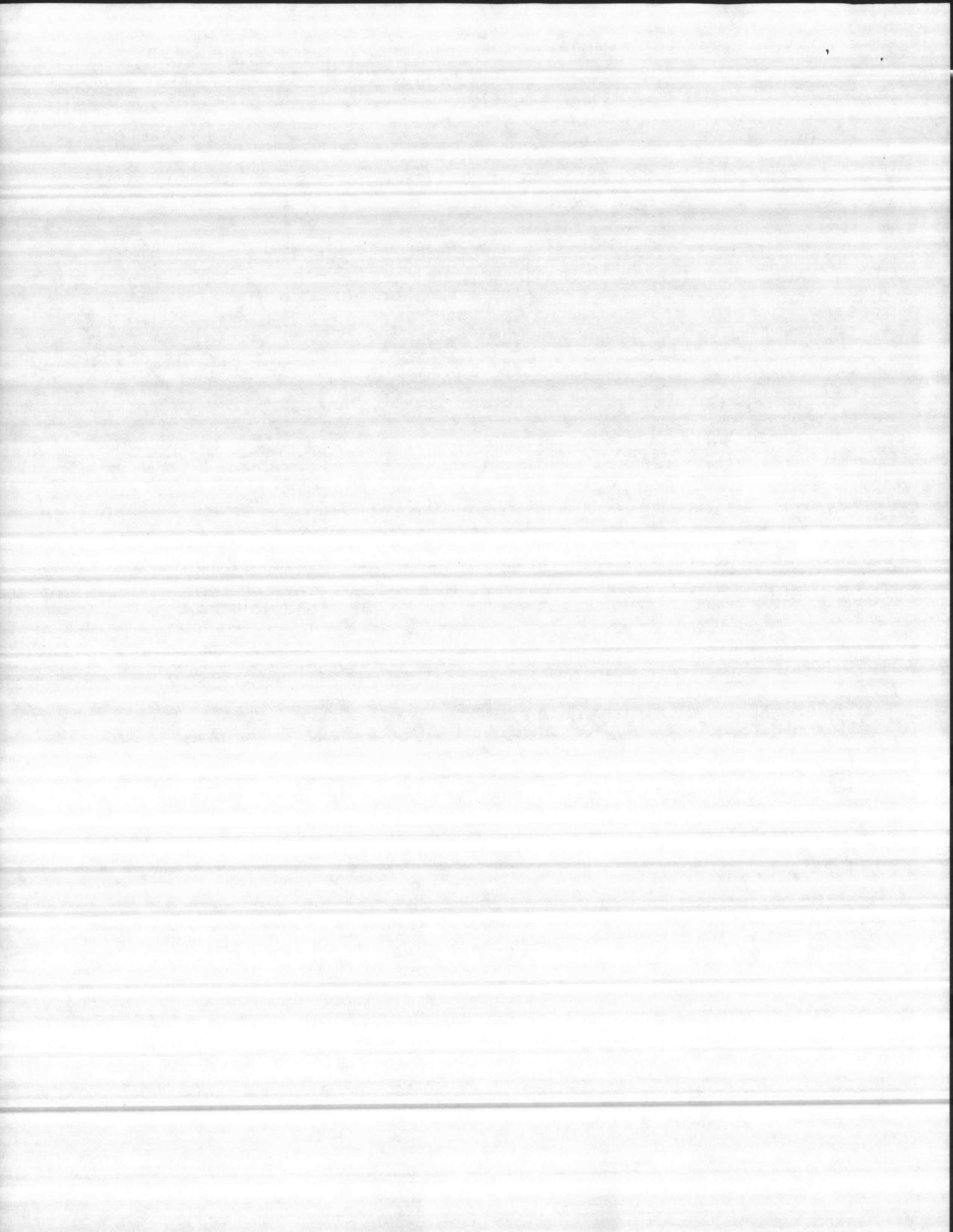
COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC 8-31-79		CONTRACTOR REPRESENTATIVE (Signature) <i>Wm. J. Haymaker</i>
DATE RECEIVED BY REVIEWER	FROM (Reviewer)	TO

- Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
- Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on **ONE COPY** of the transmittal form.

REVIEWER'S COMMENTS

*file/field
9-29-79
Jus*

COPIES TO: ROICC (2) LANTDIV (1) A-E (1)	DATE	SIGNATURE
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ASHBROOK-SIMON-HARTLEY

ASHBROOK-SIMON-HARTLEY
SUBMITTAL FOR
CAMP LE JEUNE, NORTH CAROLINA
COPLASTIX STOPGATES
OUR S.R.# CX9371

CONTRACT N62470-77-C-7526
205 BED HOSPITAL
NAVAL REGIONAL MEDICAL CENTER
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA
Spec Section 15350
Detail D/CV3-16/CV3-16



ASHBROOK-SIMON-HARTLEY

11600 East Hardy, Houston, Texas 77093
Mailing Address: P. O. Box 16327
Houston, Texas 77022
713 / 449-0322

TRANSMITTAL

DATE: 7-31-79

REF: Camp Le Jeune, N. C.

JOB: Camp LeJeune, N.C. Your
P.O. 701 Your Job # 70-79.

TITLE: Our SR# CX-9371

Emory L. Wilson Assoc., Inc.
102 Dolley Madison Road
Greensboro, N. C. 27410

ATTN: Emory L. Wilson

GENTLEMEN:

WE ARE SENDING YOU Attached Under separate cover via _____ the following items:
 Approval Drawings Certified Drawings Reproducible Samples Specifications
 Copy of Sales Release For Your File _____

Ref.	Quant.	Description
CX-9371	13	Coplastix Channel Mount Stopgate - Large Range Isometric and Details (sht 1/2)
CX-9371	13	Coplastix Channel Mount Stopgate - Large Range (sht 2/2)
N-62470-77-C-7526		
"It is hereby certified that the (material) (equipment) shown and marked in this submittal is that approved/proposed to be incorporated into Contract Number _____, is in compliance with the contract drawings and specifications, and can be installed in the allocated spaces, and is (approved for use) (submitted for Government approval).		

THESE ARE TRANSMITTED TO YOU:

- For Approval
- For Your Use
- As Requested
- For Quotation

CARDINAL CONTRACTING CO.
Authorized Reviewer Bes Date 8-31-79 PLEASE:
Signature CQC Rep Approved as submitted Resubmit _____ copies for approval
 Approved as noted Submit _____ copies for distribution
 Returned for corrections Return 1 Set approved prints

FILE NO: _____
LOCKWOOD GREENE ENGINEERS, INC.
RECEIVED
SEP 17 1979
REF TO _____
ACK. _____

REMARKS: _____

Signed: Carl W. [Signature]

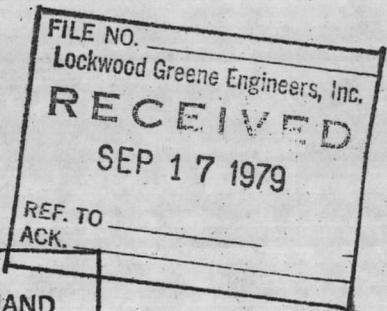
Project: Camp LeJeune North Carolina
Hospital Sewage Lift Station

Contractor: East Coast Construction Company
Jacksonville, North Carolina

Equipment: Coplastix Stop Gates

Supplier: Ashbrook-Simon-Hartley
Houston, Texas

1540



ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

APPROVED _____
APPROVED AS NOTED _____
DISAPPROVED _____

SUBJECT TO THE REQUIREMENTS OF
CONTRACT NO. N62470-77-C-7526

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
APPROVAL OF ANY DEVIATION FROM THE CON-
TRACT REQUIREMENTS UNLESS THE CONTRAC-
TOR CALLS ATTENTION TO AND SUPPORTS THE
DEVIATION...THE CONTRACTOR SHALL BE RE-
SPONSIBLE FOR PROVIDING PROPER PHYSICAL
DIMENSIONS & WEIGHTS, COORDINATION OF
TRADES, ETC., AS REQUIRED

REVIEWER B. J. Miller DATE 9/13/78

FOR OFFICER IN CHARGE OF CONSTRUCTION



ASHBROOK-SIMON-HARTLEY

INTRODUCTION TO COPLASTIX®

Over the past decade the contribution of plastics to pollution control has been gathering momentum to the extent that synthetics are no longer regarded as substitutes but are accepted materials within their own rights.

Ashbrook-Simon-Hartley has become a pioneer in the field of manufacturing of sluice gates, slide gates and other channeling devices in synthetic materials. Corrosion free, lightweight and very low friction coefficient are some of the desirable properties of these products. These products have been engineered utilizing Coplastix, a reinforced composite plastic material which is non-toxic, inert, ultra violet stabilized and has a coefficient of friction of less than 0.1.

The principle is for non-moving parts to be manufactured in conventional materials which are suitably coated, and the moving parts, i.e. the door, nut and all friction surfaces, in synthetic materials. The completed product is virtually maintenance free, using low torques to operate throughout its life, and will not seize shut due to prolonged periods of inactivity. Coplastix is well suited for this application.

The result is an efficient unit available at a most competitive price. The overall low weight of Coplastix will reflect in the price of installation and in actual usage. The smooth plastic surfaces resist the growth of algae and are very easily kept clean. Painting is not required.

A summary of Coplastix's outstanding features is as follows:

Greatly reduced weight - Reduction in handling and installation cost and in torque requirements for door operation.

Low friction in moving parts - Less physical effort for manual operation and smaller and less costly actuators.

Corrosion-free material - Longer functional life.

Smooth plastic surfaces - No painting required.

Low thermal expansion - Will not buckle or warp.

Because of the above features, Coplastix products experience very few maintenance problems. This is supported by the fact that Coplastix products have been successfully utilized since 1968.



COPLASTIX® Watertight Stopgates

Publication No. AP80

Coplastix watertight stopgates for easy hand operation are available in a range of standard sizes. (See Figs. ACP805 and ACP806 and accompanying tables.) They are designed for use in channels or for mounting on walls at the end of channels and are supplied with a flush invert as standard, i.e. with the lower frame member lying level with the invert. This feature is particularly useful for channel operation where the straightforward self-cleaning flow eliminates grit pockets and reduces turbulence. Fig. ACP802 shows the flush-invert arrangements; the adjoining table highlights the small recess necessary to accommodate the lower frame member in the floor of a channel. Rectangular stopgates or much larger stopgates can be provided to suit particular requirements.

Type of mounting

There are two alternative forms of mounting:

TYPE "R" : The stopgate is located in recesses in the side walls and floor of the channel.

TYPE "W" : The stopgate is located on a wall at the end of a channel.

The mounting type is indicated in the product code, as described later.

Fig. ACP803 shows the watertight sealing arrangement and location details for channel mounting stopgates.

Pressure head

Coplastix stopgates are designed to take a maximum head to the top of the door. Although it is unlikely for larger pressure heads to arise, should they occur they should be stated at the time of an inquiry.

Lifting facility

Stopgates are supplied complete with the facility for lifting:

6" to 20" wide

A hand slot is cut in the top of the door.

24" to 36" wide

Two handles are attached to the top of the door.

Within the fluid flow control industry, the term "stopgate" describes a piece of equipment, used to control the flow of fluid, which is not operated by a stem and handwheel. However, this does not imply that all stopgates can easily be lifted by one man by hand, particularly on the large sizes over 36" square.

Bypass gate

For stopgates larger than 36" square a bypass gate is usually fitted. Under load

conditions, the bypass is operated before raising the stopgate door, which reduces the hydraulic load on the door and facilitates easier opening. Fig. ACP804 shows a stopgate fitted with a bypass.

Construction Door

6" to 20" wide

Construction from solid Coplastix-D.

24" to 36" wide

Construction from reinforced Coplastix-D.

Frame

6" to 20" wide

A fabrication of Coplastix-D.

24" to 36" wide

A mild steel fabrication which is grit blasted, flame zinc sprayed, etch primed and finished with epoxy paint for lasting protection.

Seals

The watertight sealing arrangement for the stopgate door, illustrated in Fig. ACP803 is a patented feature. It comprises sealing faces of Coplastix-S with resilient backing strips of Coplastix-N.

All Coplastix contact faces are made in materials incompatible to each other, thus avoiding the possibility of seizure or sticking and making the operation smooth and easy. The degree of watertight sealing achieved is defined as being a leakage rate of less than 0.2 gallons per hour per foot of periphery under normal operating conditions.

Fasteners

All fasteners used in the stopgate construction are stainless steel.

Installation

Type "R" stopgates are located and grouted into the prepared recesses in the side walls and floor of the channel. Sizes of the recesses are given in Fig. Nos. ACP802 and 803. Type "W" stopgates are located and grouted onto a wall, and are supplied with special anchor bolts (normally in EN5 or EN6A material) which are included in the price. These special anchor bolts offer the following benefits:

- Reduced civil costs. Eliminates the need for 'pockets' in concrete work.
- Quicker installation. After placing the stopgate against the wall, drill holes are simply marked off using the holes in the mounting angles at each side of the frame as a template; holes can then be

drilled in the marked positions and anchor bolts then inserted and tightened up after grouting. Remember, the light weight of Coplastix products makes positioning and location a much simpler operation. Anchor bolts centers are shown in Fig. No. ACP806.

- High Load Capacity. Higher pull-out load and shear load than most other foundation bolts of similar size. Step-by-step installation instructions accompany each order.

Watertight

Coplastix watertight stopgates in the range of standard sizes are competitively priced and generally available on reasonably short delivery and they should not be confused with other types of stopgates which are non watertight.

Product codes

All standard sizes of stopgates are identifiable by a code number. The use of the code number is encouraged as it facilitates the handling of inquiries and processing of orders. To specify a standard stopgate simply pick the required size and type from the selection tables in Fig. Nos. ACP805 or 806 and quote the full code number. Example: HSR/18.18/P identifies a stopgate (HS) for channel mounting (R) size 18 inches square. If a wall mounting stopgate 16" wide by 19" deep is required the code number would be HSW/16.19/P. The suffix P is the manufacturer's code applied to this range.

Inquiry Questionnaire

Certain basic data is essential to allow selection of the correct equipment against a specification. To avoid unnecessary delay please insure that the following information is given for each item of your inquiry:

- Quantity required.
- Type of mounting (type "R" or type "W")
- Product code (or size of opening) (w x d)
- Liquid in which the stopgate is to operate. If a mixture of several, state their sources or give full analysis details.

Patents

Coplastix products are subject to U.S.A. patent numbers 3809119, 3874158, 3938548 and 3897043. Other patents have been applied for in the United States of America and other countries.

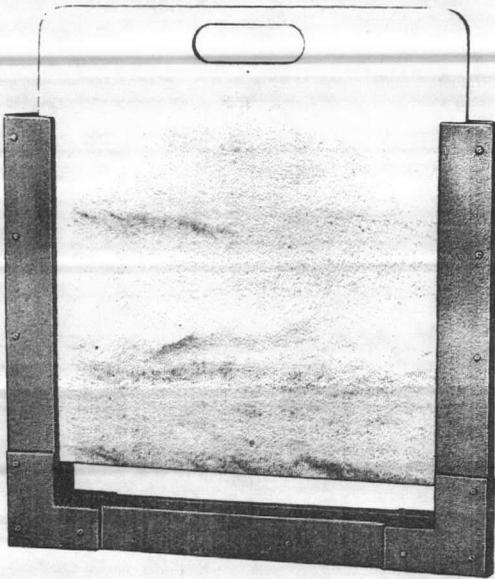
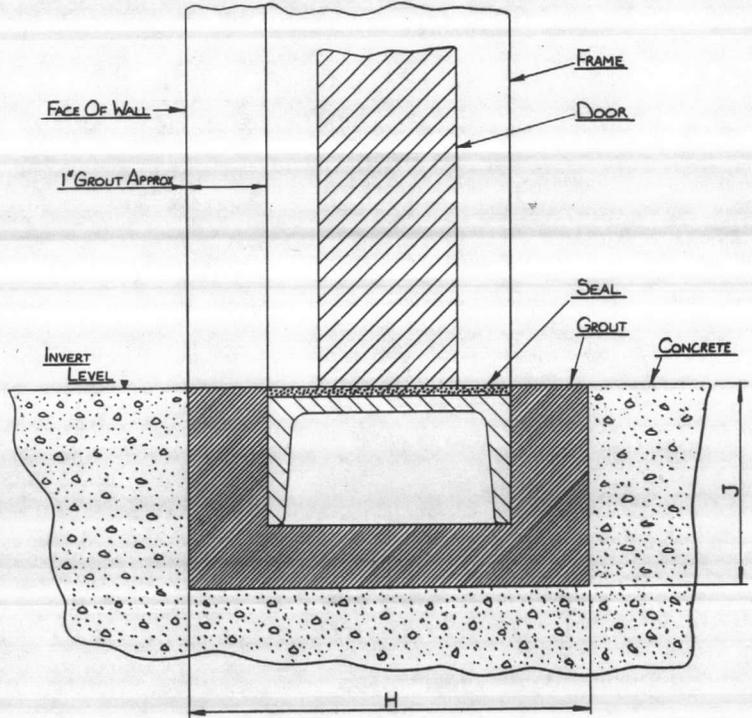


Fig. ACP801
Photograph of small stopgate.

Fig. ACP802
Section showing flush invert arrangement and building-in detail when fitted at the bottom of a wall.



STOPGATE WIDTH	H	J
6" TO 20"	4 $\frac{3}{8}$ "	2 $\frac{1}{2}$ "
24" TO 36"	5"	2 $\frac{3}{4}$ "

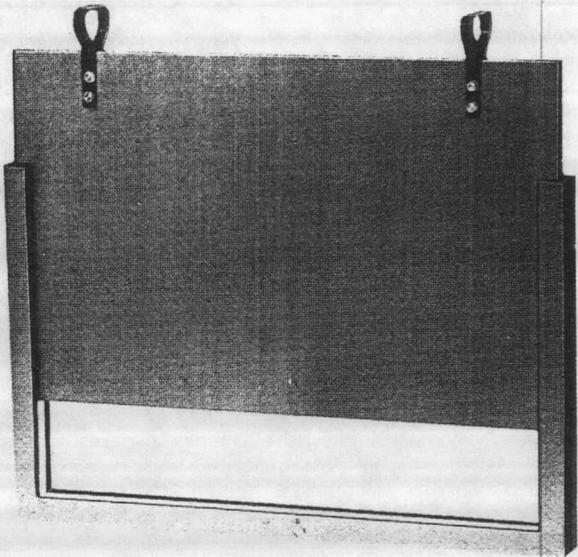
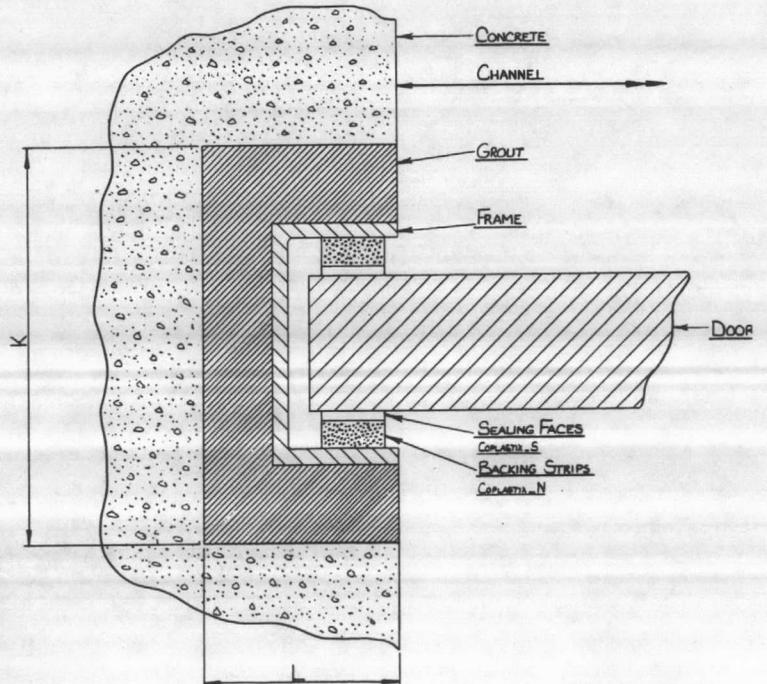
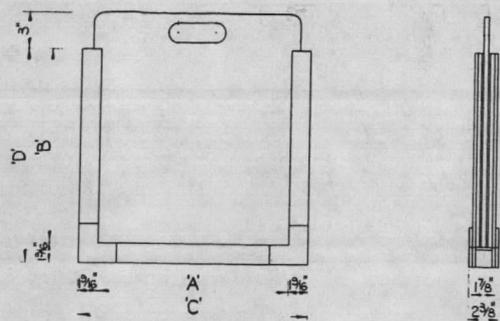


Fig. ACP803
Photograph of large stopgate

Fig. ACP804
Section of the watertight sealing arrangement and location details for channel mounting stopgates.



STOPGATE WIDTH	K	L
6" TO 20"	4 $\frac{3}{8}$ "	2 $\frac{1}{2}$ "
24" TO 36"	5"	2 $\frac{1}{2}$ "



STOPGATES UP TO 20" WIDE.

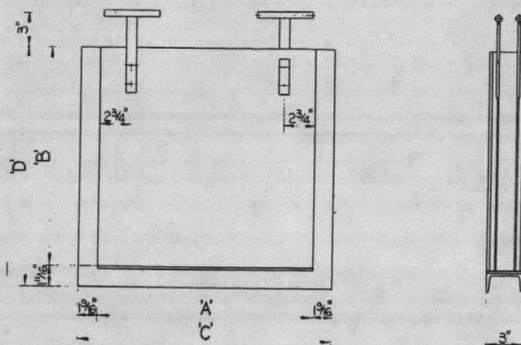
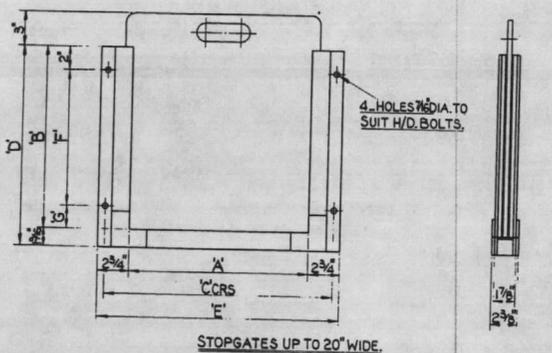


Fig. ACP805
Overall arrangement and dimensions table for channel mounting stopgates.

PRODUCT CODE	A WIDTH	B DEPTH	C	D	MATERIAL	
					DOOR	FRAME
HSR 6.6 P	6"	6"	9 7/8"	7 9/16"		
HSR 8.8 P	8"	8"	11 1/8"	9 9/16"		
HSR 10.10 P	10"	10"	13 3/8"	11 9/16"		
HSR 12.12 P	12"	12"	15 5/8"	13 9/16"	COP. IS	COP. IS
HSR 14.14 P	14"	14"	17 1/8"	15 9/16"	3/8" THK	
HSR 16.16 P	16"	16"	19 3/8"	17 9/16"		
HSR 18.18 P	18"	18"	21 1/8"	19 9/16"		
HSR 20.20 P	20"	20"	23 3/8"	21 9/16"		
HSR 24.24 P	24"	24"	27 1/8"	25 1/16"	COP. IS	
HSR 28.28 P	28"	28"	31 1/8"	29 1/16"	1/2" THK	M.S.
HSR 32.32 P	32"	32"	35 5/8"	33 1/16"		
HSR 36.36 P	36"	36"	39 7/8"	37 1/16"		



STOPGATES UP TO 20" WIDE.

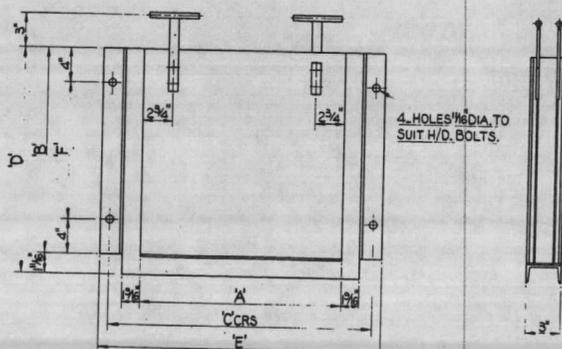


Fig. ACP806
Overall arrangement and dimensions table for wall mounting stopgates.

PRODUCT CODE	A WIDTH	B DEPTH	C	D	E	F	G	MATERIAL	
								DOOR	FRAME
HSW/6.6/P	6"	6"	10 5/16"	7 9/16"	11 1/2"	3"	1"		
HSW/8.8/P	8"	8"	12 5/16"	9 9/16"	13 1/2"	5"	1"		
HSW/10.10/P	10"	10"	14 5/16"	11 9/16"	15 1/2"	7"	1"	COP. IS	COP. IS
HSW/12.12/P	12"	12"	16 5/16"	13 9/16"	17 1/2"	8"	2"	3/8" THK	
HSW/14.14/P	14"	14"	18 5/16"	15 9/16"	19 1/2"	10"	2"		
HSW/16.16/P	16"	16"	20 5/16"	17 9/16"	21 1/2"	12"	2"		
HSW/18.18/P	18"	18"	22 5/16"	19 9/16"	23 1/2"	14"	2"		
HSW/20.20/P	20"	20"	24 5/16"	21 9/16"	25 1/2"	16"	2"		
HSW/24.24/P	24"	24"	29 1/2"	25 1/16"	31 1/8"	16"	—	COP. IS	
HSW/28.28/P	28"	28"	33 1/2"	29 1/16"	35 1/8"	20"	—	1/2" THK	M.S.
HSW/32.32/P	32"	32"	37 1/2"	33 1/16"	39 1/8"	24"	—		
HSW/36.36/P	36"	36"	41 1/2"	37 1/16"	43 1/8"	28"	—		



11600 East Hardy, Houston, Texas 77093
Mailing Address: P.O. Box 16327 Houston, Texas 77022
713/449-0322 TWX: 910-881-6346



ASHBROOK-SIMON-HARTLEY

Technical Specification TS92

COPLASTIX—D material

A rigid compressed composite plastic with extremely high tensile- and impact-strength. Non-toxic and stabilized against ultra-violet light.

Comparison Table 1
(Typical values)

Material	Flexural modulus PSI	Flexural strength PSI	Tensile strength PSI
Coplastix-D	1,400,000	18,000	12,500
Rigid PVC	500,000	12,000	7,000

Comparison Table 2
(Typical values)

Material	Linear coefficient of thermal expansion
Rigid PVC	7.0×10^{-5} per °C
Aluminum	2.3×10^{-5} per °C
Coplastix-D	1.6×10^{-5} per °C
Concrete masonry	1.3×10^{-5} per °C
Steel	1.2×10^{-5} per °C

Comparison Table 3
(Typical values)

Temperature °C	% retention of impact strength	
	Rigid PVC	Coplastix-D
20	100	100
0	55	95
-20	40	93

Table 4

Mechanical Properties

Tensile strength	12,300 psi
Young's modulus	1,300,000 psi
Flexural strength	18,000 psi
Flexural modulus	1,400,000 psi
Compressive strength	11,000 psi
Impact strength	43.4×10^6 erg
Water absorption	0.38%
Specific gravity	1.75

Table 5

Physical Properties

Coefficient of thermal expansion ...	1.6×10^{-5} per °C
Heat distortion point	80°C ASTM D648
Low temperature impact strength	93% @ -20°C
Notch sensitivity	Not notch sensitive
Chemical properties	See Tables 6 & 7
Weathering properties	Excellent
Fire resistance	Class 1 Spread of Flame
	Rating BS476: Part 1: 1953
	self extinguishing
	ASTM D.635 — 56R

Table 6
Chemical resistance
(edges and surfaces exposed)

<u>Reagent</u>	<u>Resistance rating</u>	<u>Reagent</u>	<u>Resistance rating</u>
Acetic acid (glacial)	S	Lead acetate solution	E
Acetic acid (60%)	S	Magnesium sulphate solution	E
Acetic acid (10%)	E	Maleic acid	NS
Acetic anhydride	NS	MEK	NS
Acetone	NS	Mineral Oil	E
Aceto nitrile	S	Nickel nitrate solution	E
Atyl alcohol	E	Nicotine	NS
Ammonia (0.880)	E	Nitric acid (conc)	NS
Ammonium chloride (saturated solution)	E	Nitric acid (50%)	NS
Ammonium thiocyanate (saturated solution)	E	Nitric acid (10%)	S
Amyl acetate	NS	Nitrobenzene	NS
Aniline	NS	Ozone	E
Aniline hydrochloride	S	Perchloric acid	S
Antimony trichloride	S	Phenol	S
Benzene	NS	Phosphoric acid (88%)	E
Borax solution	E	Phosphoric acid (25%)	S
Bromine	NS	Phosphorous trichloride	NS
Calcium chlorate solution	E	Potassium chromate solution	E
Carbon tetrachloride	S	Potassium dichromate solution	E
Chlorosulphonic acid	NS	Potassium ferricyanide solution	E
Chrome alum solution	E	Potassium ferrocyanide solution	E
Chromic acid (25%)	NS	Potassium fluoride solution	E
Cupric sulphate solution	S	Potassium hydroxide (concentrated)	E
Cyclo hexanone	NS	Seawater	E
Diesel Oil	E	Shell 4 star petrol	S
Ether	S	Sodium hydroxide (concentrated)	E
Ethyl acetate	NS	Sodium hydroxide (10%)	E
Ethylene glycol	E	Sodium hydroxide (1%)	E
Ferric chloride solution	E	Sodium sulphate solution	E
Fluorosilicic	E	Stannic chloride solution	E
Formaldehyde (37%)	NS	Stannous chloride solution	E
Glucose solution	E	Sucrose solution	E
Heptane	E	Sulphuric acid (concentrated)	S
Hydrochloric acid (concentrated)	NS	Sulphuric acid (50%)	NS
Hydrochloric acid (20%)	NS	Sulphuric acid (10%)	NS
Hydrochloric acid (10%)	S	Toluene	NS
Hydrogen peroxide (100 vol.)	E	Turpentine	E
HMS	E	Urea solution	E
ISO-butyl alcohol	E	Water	E
Insecticides (as most are water soluble in low concentrates.)	E	White Spirit	E

Table 7
Chemical resistance
(surfaces-only exposed)

<u>Reagent</u>	<u>Resistance rating</u>
Chromic acid (25%)	E
Hydrochloric acid (concentrated)	E
Hydrochloric acid (20%)	E
HMS	E
HEK	NS
Mitric acid (50%)	E
Sutric acid (5%)	S
Seawater	E
Sodium hydroxide (25%)	E
Sodium hydroxide (5%)	E
Sulphuric acid (concentrated)	E
Sulphuric acid (20%)	E
Toluene	NS
Water	E

LEGEND

E=EXCELLENT

i.e. greater than 80% flexural strength retention and little visual change.

S= SATISFACTORY

i.e. 60% to 80% flexural strength retention with surface change or roughening.

NS= NOT SUITABLE

i.e. less than 60% flexural strength retention, blistering or delamination, softening of surface.



ASHBROOK-SIMON-HARTLEY

11600 East Hardy, Houston, Texas 77093
Mailing Address: P.O. Box 16327 Houston, Texas 77022
713/449-0322 TWX: 910-881-6346



ASHBROOK-SIMON-HARTLEY

WARRANTY

ASHBROOK-SIMON-HARTLEY, Corp. Warrants for a period of twelve (12) months from start up, not to exceed eighteen (18) months from date of shipment, the new equipment of its own manufacture to be free from defects in material and workmanship under normal use and service when used and maintained in accordance with instructions supplied by Ashbrook-Simon-Hartley. Ashbrook-Simon-Hartley's obligation under this warranty being limited to repairing or replacing at its option any part found to its satisfaction to be so defective, provided that such part is, upon request, returned to Ashbrook-Simon-Hartley's factory, freight prepaid. This warranty does not cover parts damaged by decomposition from chemical action or wear caused by abrasive materials, nor does it cover damage resulting from misuse, accident, neglect, or from improper operation, maintenance, installation, modification or adjustment. This warranty does not cover parts required outside Ashbrook-Simon-Hartley's factory without prior written approval. Ashbrook-Simon-Hartley makes no warranty as to starting equipment, electrical apparatus or other material not of its manufacture, since the same are covered by warranties of the respective manufacturer thereof.

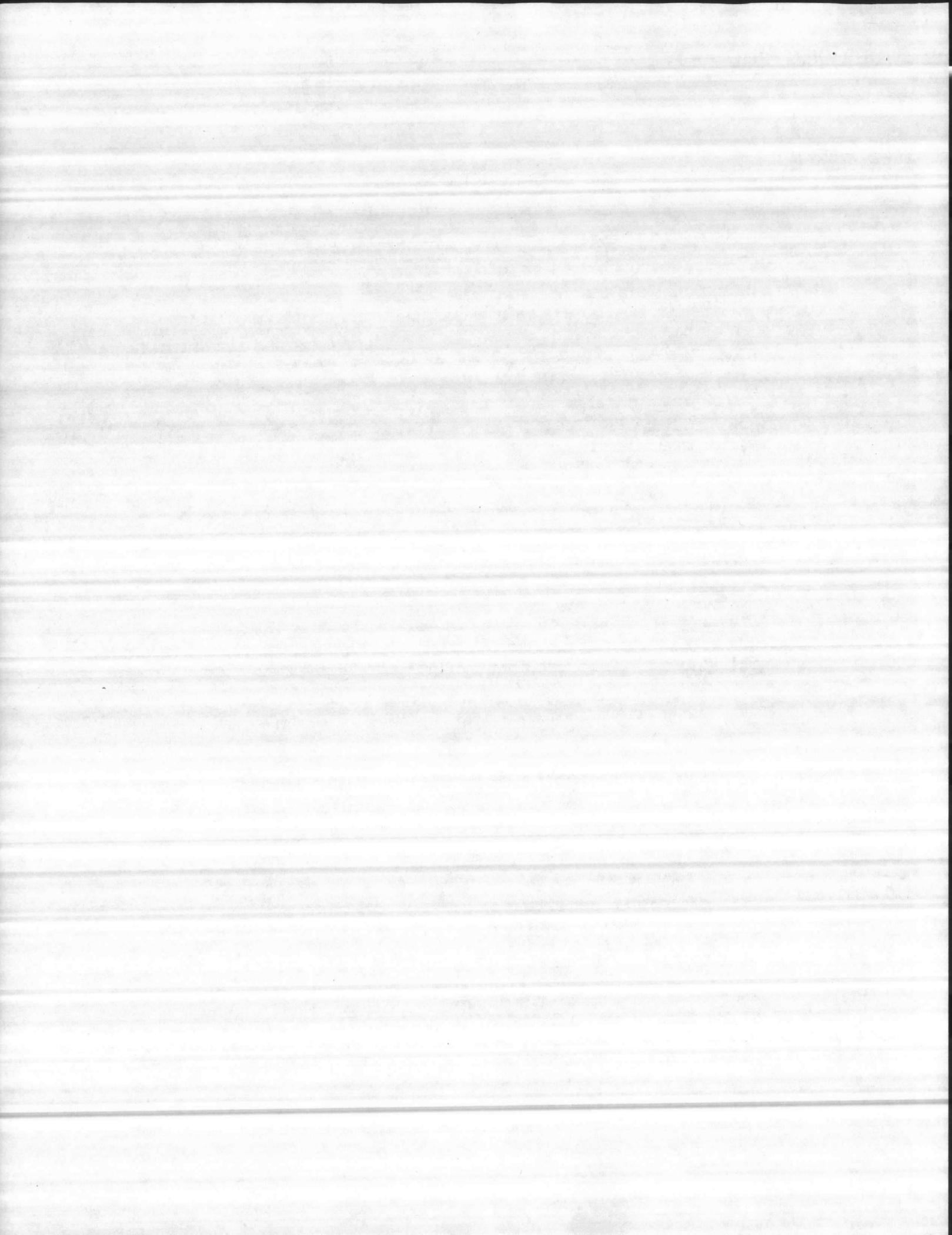
Ashbrook-Simon-Hartley shall not be liable for consequential damages whether or not caused by sellers negligence. Consequential damages for the purpose of this agreement shall include, but not be limited to, loss or use, income or profit, or loss of or damage to property occasioned by or arising out of the operation, use, installation, repair or replacement of the equipment or otherwise.

SERVICE TERMS



ASHBROOK-SIMON-HARTLEY

1. RATES
Service rate is \$225.00 net per 8 hour man day during normal working hours, Monday through Friday. Rate for Saturday is \$338.00 net per 8 hour man day during normal working hours. Rate for Sunday and Holidays is \$450.00 per 8 hour man day during normal working hours. Travel time is working time. Parts and expenses are additional. Terms - Net Cash.
2. MINIMUM BILLING
A minimum charge for 1/2 day's time will be made. Billing will be made in 1/2 day increments for time each day at job and/or traveling during normal working hours. Thus five hours spent on job and traveling is billed as one full day.
3. NORMAL WORKING HOURS AND DAYS
8 hours per day, with one hour for lunch, Monday through Friday, except observed holidays which include: Day before New Year's Day, New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving, Friday following Thanksgiving, Christmas Eve, Christmas Day.
4. OVERTIME
Overtime will be billed at 1 1/2 times the prevailing rate for hours in excess of 8 hours spent on a job.
5. EXPENSES
 - A. Travel
 - (1) Actual plane, train or rental automobile costs from Ashbrook-Simon-Hartley, Houston, Texas, to the customer's plant or construction site, and return.
 - (2) Private automobile travel at the rate of \$0.20 per mile.
 - (3) Expenses also to include local travel required.
 - (4) Where our service representative goes from job to job, rather than returning to his headquarters, and equitable distribution of travel charges will be made.
 - B. Living
 - (1) Actual expenses for lodging, meals and incidental costs.
 - C. Telephone calls and wires as required in connection with the details of the job will be charged at cost.
 - D. Administrative expenses and profit will be charges accordingly at the rate of 15%.
6. PARTS
All parts supplied will be billed at list prices. Service work performed by others under our authorization will be billed at our cost plus 20% overhead.
7. LIMITATION OF LIABILITY
As our representatives are authorized to work on Ashbrook-Simon-Hartley equipment and are not authorized to operate related equipment, all responsibility for operation rests with the customer. Ashbrook-Simon-Hartley shall not be liable for any claims, losses, labor, expenses or damages, direct or consequential, resulting directly or indirectly from the service performed hereunder or for other consequential loss or damage of any nature arising from any cause.



ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511

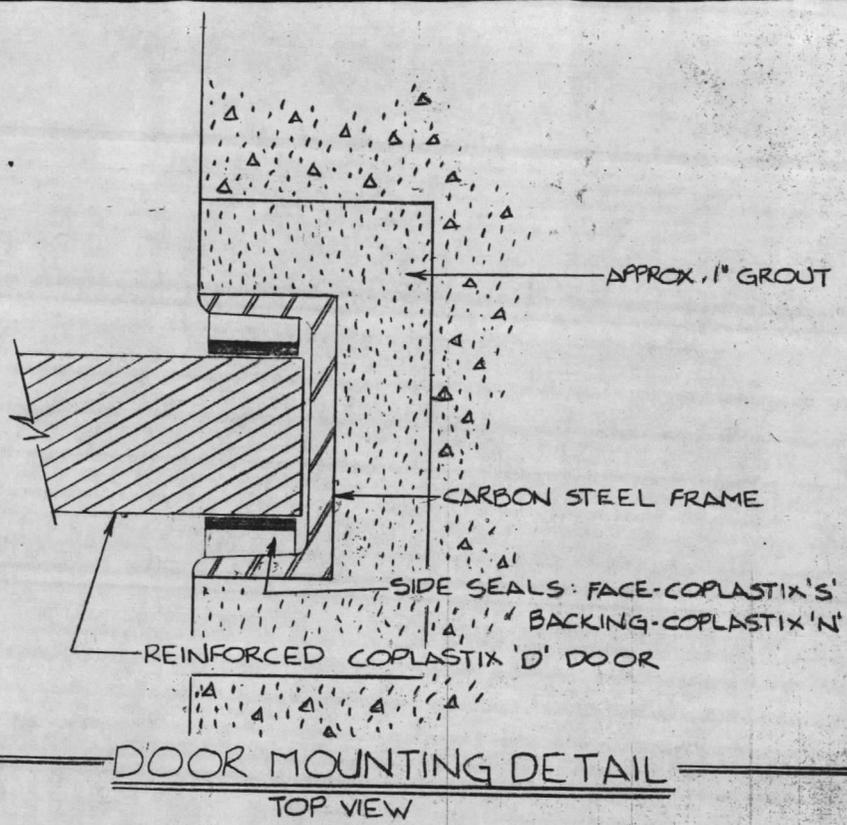
APPROVED
APPROVED AS NOTED
DISAPPROVED

SUBJECT TO THE REQUIREMENTS OF,
N62470-77-C-7526

CONTRACT NO. APPROVAL OF A SUBMITTAL DOES NOT INCLUDE APPROVAL OF ANY DEVIATION FROM THE CONTRACT REQUIREMENTS UNLESS THE CONTRACTOR CALLS ATTENTION TO AND SUPPORTS THE DEVIATION...THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER PHYSICAL DIMENSIONS & WEIGHTS, COORDINATION OF TRADES, ETC. AS REQUIRED

REVIEWER: *BTM* DATE: *9/3/79*

FOR OFFICER IN CHARGE OF CONSTRUCTION

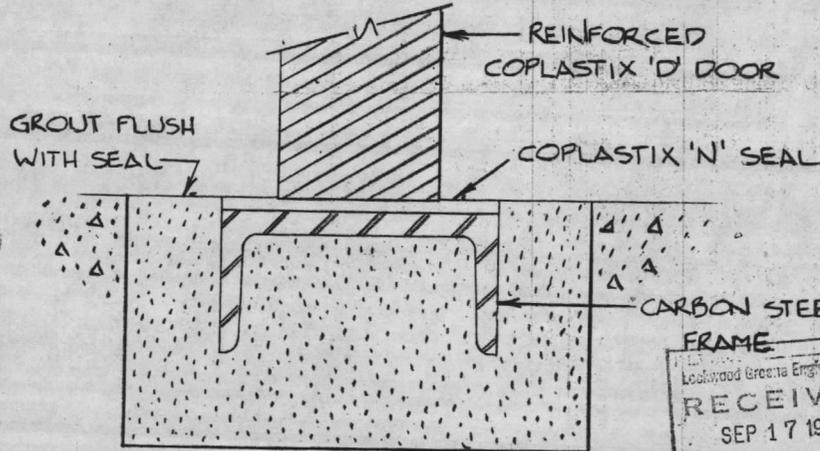


CHANNEL

RECOMMENDED
CUTOUT

STEEL FRAME

REINFORCED COPLASTIX 'D' DOOR



FILE NO. *1540*
Lookwood Greene Engineers, Inc.
RECEIVED
SEP 10 1979
REF. TO
BACK

N-62470-77-C-7526

"It is hereby certified that the (material) (equipment) shown and marked in this submittal is that approved/proposed to be incorporated into Contract Number , is in compliance with the contract drawings and specifications, and can be installed in the allocated spaces, and is (approved for use) (submitted for Government approval).

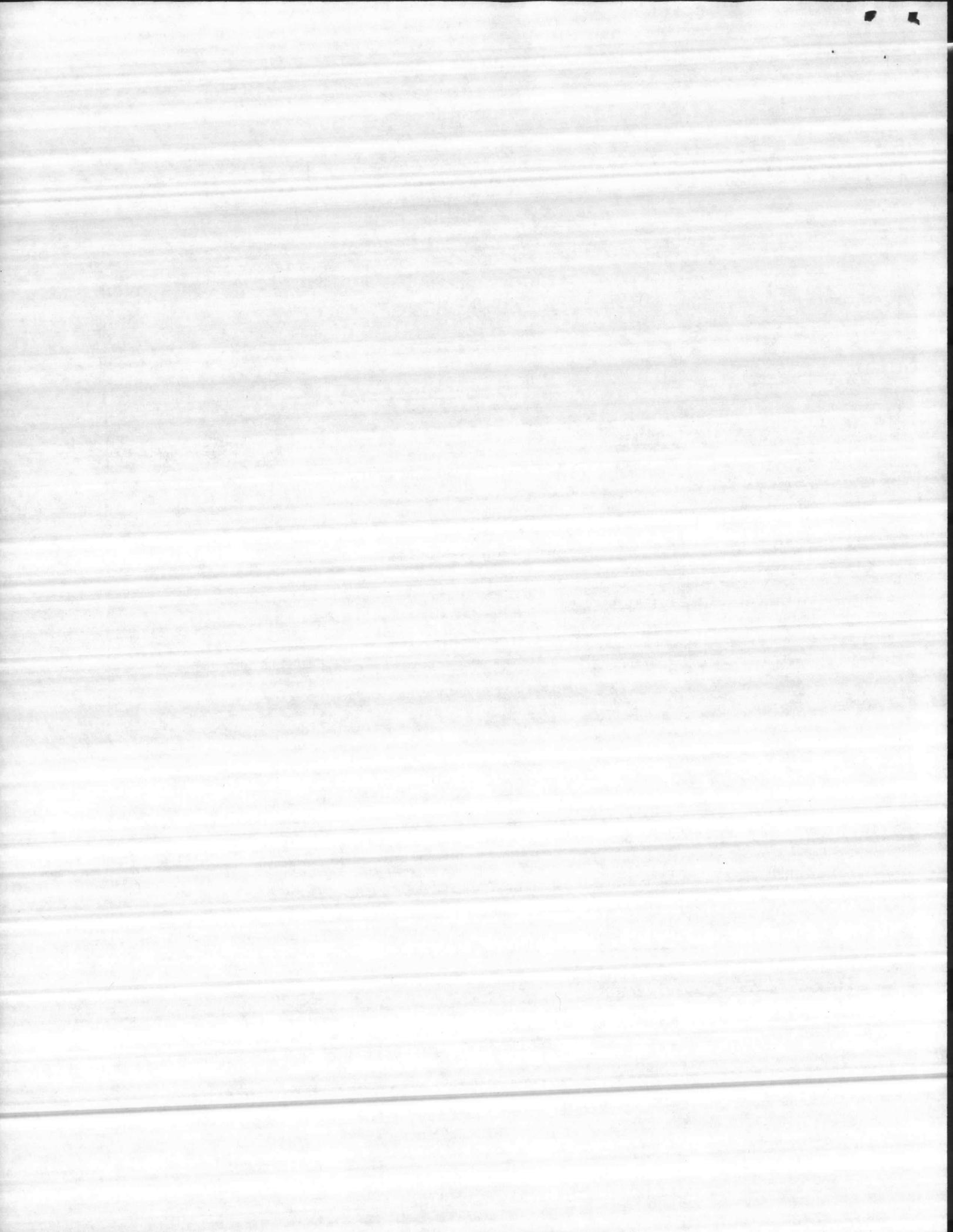
CARDINAL CONTRACTING CO.

Authorized Reviewer: *BES* Date: *8-31-79*
Signature CQC Rep: Date:

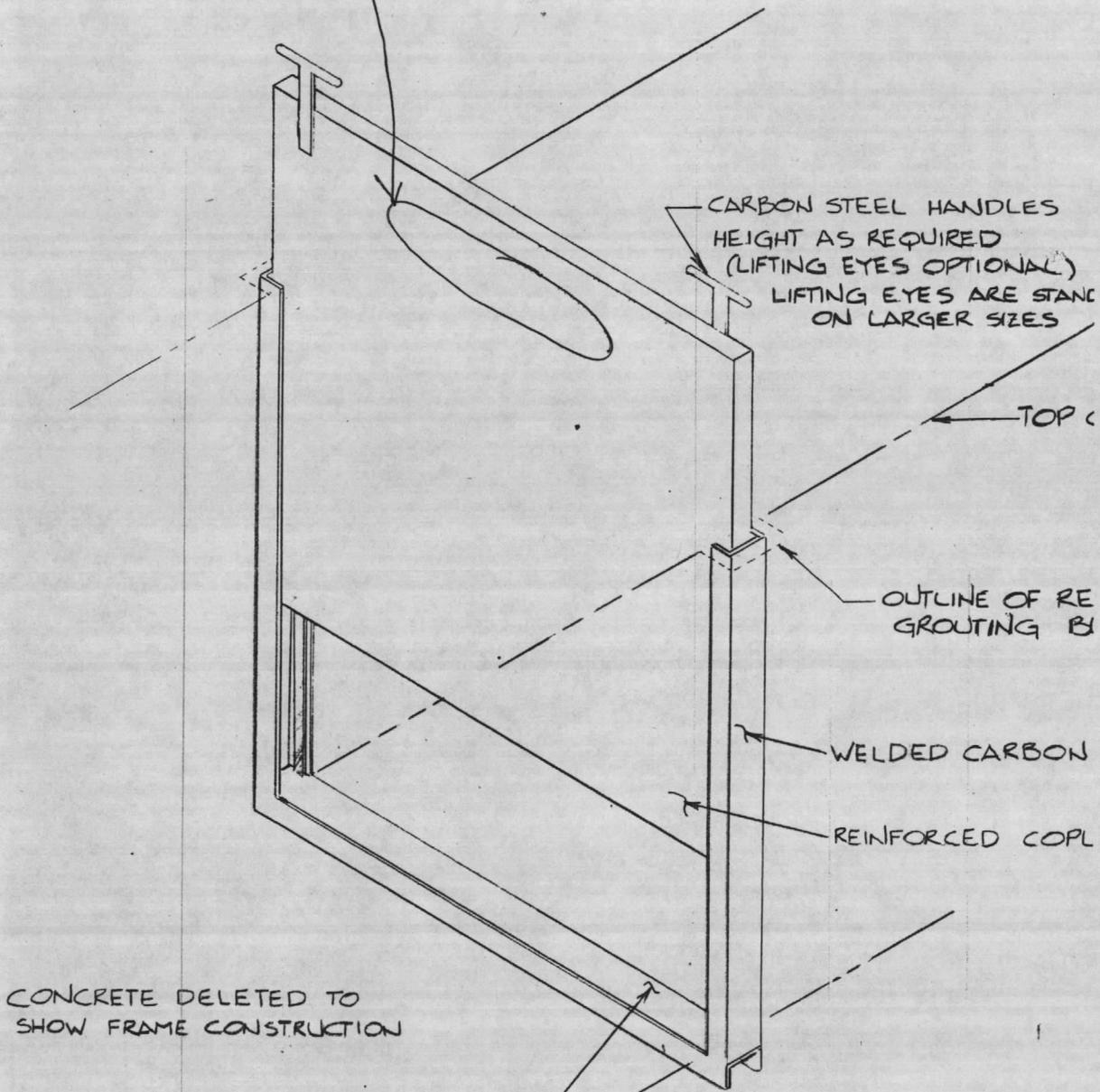
1540
INVERT SEAL DETAIL
SIDE VIEW

REF. TO
SUBMITTAL DWG.
FOR APPROVAL
ASHBROOK SIMON HARTLEY
JUL 25 1979
ENG. APP. DATE

QTY	ITEM	PART NUMBER	DESCRIPTION	PART SIZE	MATERIAL	WT
	QTY	PROPRIETARY ITEM. NOT TO BE DUPLICATED IN ANY WAY WITHOUT PERMISSION FROM ASH-BROOK-SIMON-HARTLEY AND TO BE RETURNED UPON DEMAND.	DRAFTSMAN DATE <i>JEE 7/9/79</i>	 ASHBROOK-SIMON-HARTLEY P.O. BOX 16327 HOUSTON, TEXAS 77022 TITLE COPLASTIX CHANNEL MOUNT STOPGATE - LARGE RANGE ISOMETRIC & DETAILS TOTAL WT. SIZE DRAWING NUMBER REV. SHT. NONE C CX-9371 1/2		
	P/N	TOLERANCE UNLESS OTHERWISE NOTED:	ENGINEER DATE			
	NEXT ASSEMBLY	FRACTIONAL ± 1/16	ENGR'G CHECKER DATE			
		DECIMAL .XX ± 0.03	ENGR'G APPROVAL DATE <i>CWF 7-25-79</i>			
		.X ± 0.1, .XXX ± 0.015	RELEASED DATE <i>WJM 7-25-79</i>			
		ANGLES ± 1/2°	SCALE: <u> </u>			
		MACH SURFACES 125 V MAX.				
		ALL DIMENSIONS IN INCHES				



1 1/2" x 5" Opening
With Rounded Corners



CARBON STEEL HANDLES
HEIGHT AS REQUIRED
(LIFTING EYES OPTIONAL)
LIFTING EYES ARE STANIC
ON LARGER SIZES

TOP C

OUTLINE OF RE
GROUTING B

WELDED CARBON

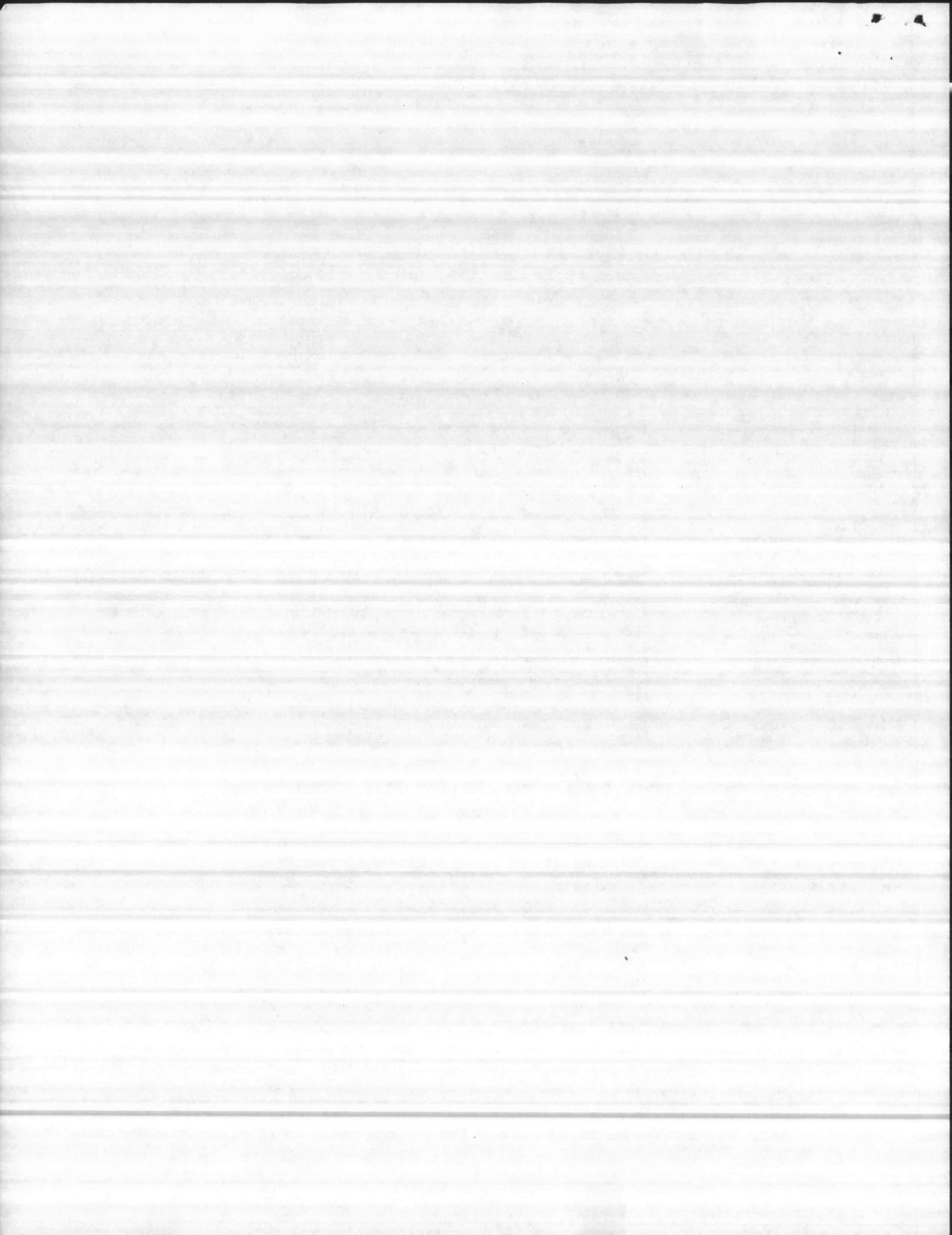
REINFORCED COPL

CONCRETE DELETED TO
SHOW FRAME CONSTRUCTION

COPLASTIX 'N' INVERT SEAL
(SEE DETAIL AT RIGHT)

CARBON STEEL COATINGS:
ALL CARBON STEEL EXPOSED
TO THE PROCESS IS SANDBLASTED,
FLAME ZINC SPRAYED AND COATED
WITH COAL TAR EPOXY.

CAMP LEJEUNE, NORTH CAROLII



ATLANTIC DIVISION
 NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA 23511

APPROVED _____
 APPROVED AS NOTED
 DISAPPROVED _____

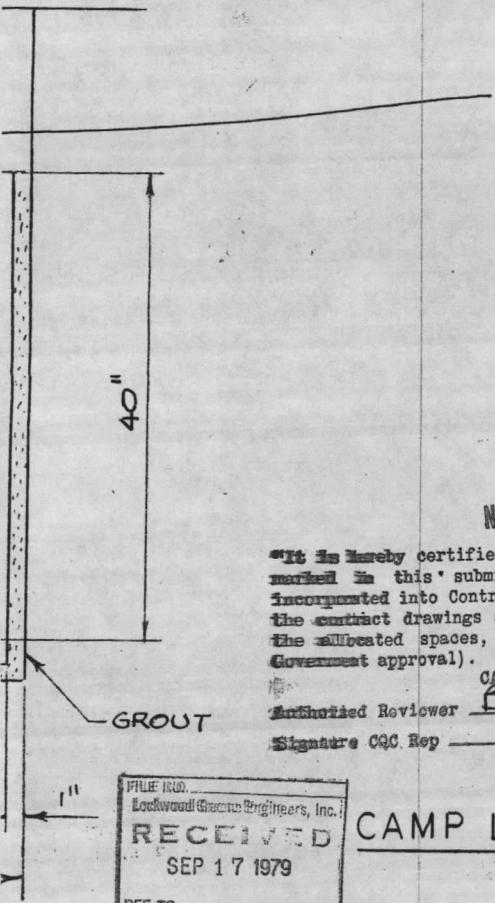
SUBJECT TO THE REQUIREMENTS OF
 CONTRACT NO. N62470-77-C-7525.

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
 APPROVAL OF ANY DEVIATION FROM THE CON-
 TRACT REQUIREMENTS UNLESS THE CONTRAC-
 TOR CALLS ATTENTION TO AND SUPPORTS THE
 DEVIATION...THE CONTRACTOR SHALL BE RE-
 SPONSIBLE FOR PROVIDING PROPER PHYSICAL
 DIMENSIONS & WEIGHTS. COORDINATION OF
 TRADES, ETC. AS REQUIRED

REVIEWER mm DATE 9/13/79

FOR OFFICER IN CHARGE OF CONSTRUCTION

EYES



*1 1/2" x 5" opening
 with rounded
 corners*

N-62470-77-C-7526

"It is hereby certified that the (material) (equipment) shown and
 marked in this submittal is that approved/proposed to be
 incorporated into Contract Number _____, is in compliance with
 the contract drawings and specifications, and can be installed in
 the allocated spaces, and is (approved for use) (submitted for
 Government approval).

SUBMITTAL DWG.
 FOR APPROVAL
 ASHBROOK - SIMON - HARTLEY
 ENG. APP. _____ DATE JUL 25 1979

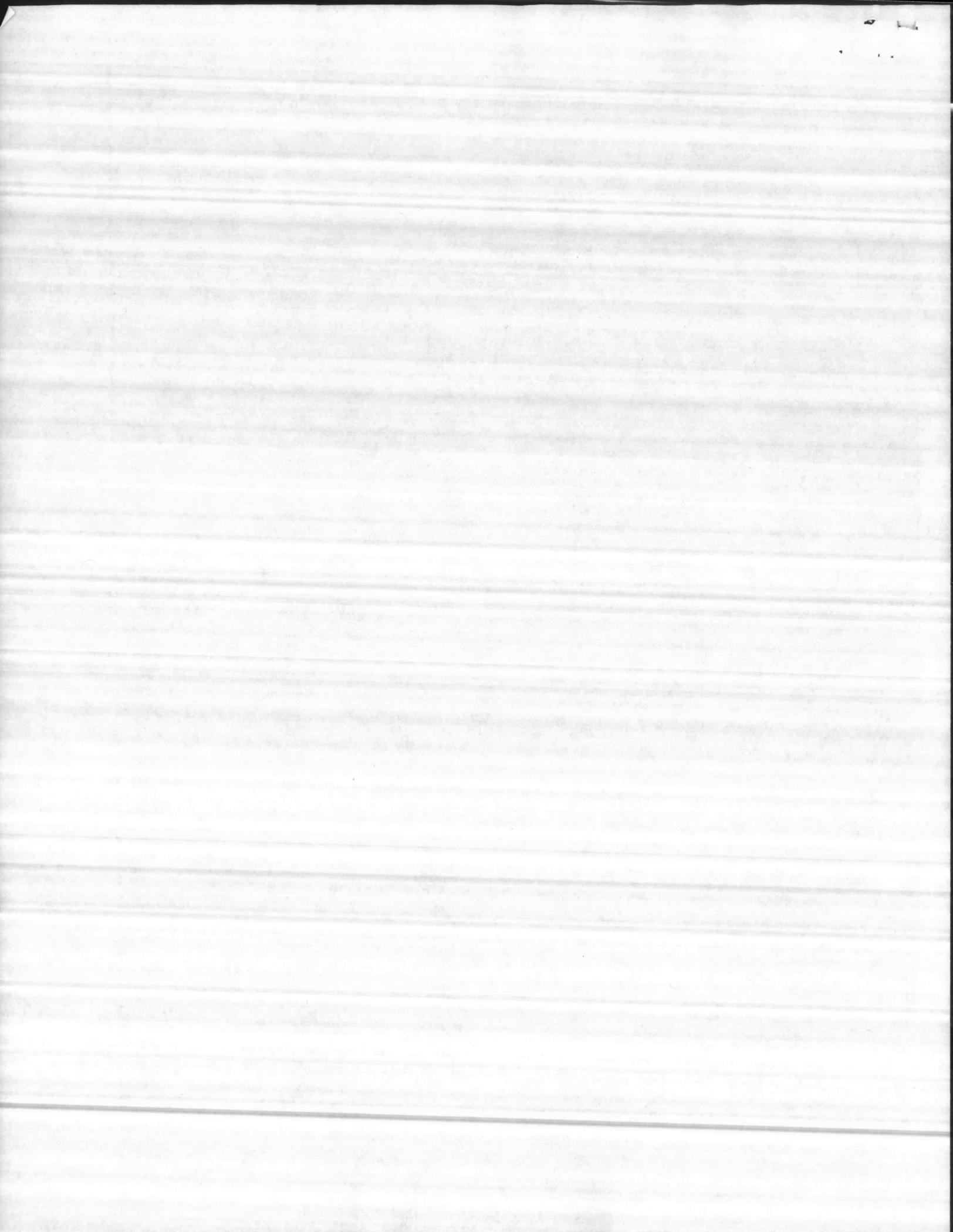
Authorized Reviewer BRS Date 8-31-79
 Signature CQC Rep _____ Date _____

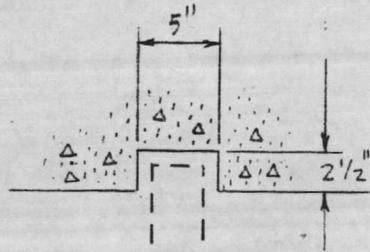
FILE NO.
 Lockwood Greene Engineers, Inc.
RECEIVED
 SEP 17 1979
 REF. TO _____
 ACK _____

CAMP LEJEUNE, NORTH CAROLINA
2 GATES REQUIRED

FILE NO.
 Lockwood Greene Engineers, Inc.
RECEIVED
 SEP 10 1979
 REF. TO _____
 ACK _____

QTY	ITEM	PART NUMBER	DESCRIPTION	PART SIZE	MATERIAL	WT
	QTY	PROPRIETARY ITEM. NOT TO BE DUPLICATED IN ANY WAY WITH- OUT PERMISSION FROM ASH- BROOK-SIMON-HARTLEY AND TO BE RETURNED UPON DEMAND.	DRAFTSMAN DATE <u>JEE 7/9/79</u>	 ASHBROOK-SIMON-HARTLEY P.O. BOX 16327 HOUSTON, TEXAS 77022		
	P/N	TOLERANCE UNLESS OTHERWISE NOTED:	ENGINEER DATE			
	NEXT ASSEMBLY	FRACTIONAL ± 1/16	ENGR'G CHECKER DATE			
		DECIMAL XX = ± .03 .X = ± .1, .XXX = ± .015 ANGLES = ± 1/2° MACH SURFACES 125 V MAX. ALL DIMENSIONS IN INCHES	ENGR'G APPROVAL DATE <u>CWF 7-25-79</u> RELEASED DATE <u>Mast 7-25-79</u> SCALE: <u>NONE</u>			
			TITLE COPLASTIX CHANNEL MOUNT STOPGATE - LARGE RANGE	TOTAL WT.	SIZE <u>C</u>	DRAWING NUMBER <u>CX-9371</u>
					REV. <u>2/2</u>	SHT.





BLOCKOUT DETAILS

TYPICAL BOTH SIDES

